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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/120,030	07/21/1998	BETH P GOLDSTEIN	7732-022-27	1743	
7590 09/17/2004			EXAMINER		
PIPER RUDNICK, LLP			BORIN, MICHAEL L		
1200 Nineteenth Street, N.W. Washington, DC 20036-2412			ART UNIT	PAPER NUMBER	
			1631	1631 DATE MAILED: 09/17/2004	
			DATE MAILED: 09/17/200-		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
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Office Action Summany	09/120,030	GOLDSTEIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael Borin	1631				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH t, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. IDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 07/20	<u>0/2004</u> .					
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 4,5,28,32,35,41-51,56-59 and 61-66 4a) Of the above claim(s) 28 and 35 is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 4,5,32,41-51,56-59 and 61-66 is/are is/are objected to. 7) □ Claim(s) is/are object to restriction and/o	drawn from consideration.	tion.				
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by drawing(s) be held in abeyance tion is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	s have been received. s have been received in Apprite rity documents have been re u (PCT Rule 17.2(a)).	plication No ceived in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		nmary (PTO-413) Mail Date				
Notice of Draitsperson's Fatent Drawing Review (F10-9-0) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		rmal Patent Application (PTO-152)				

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DETAILED ACTION

Status of Claims

- 1. Response filed 07/20/2004 is acknowledged. There is no change in claim status. Claims 4,5, 28,32,35,41-51,56-59,61-66 are pending. Claims 28,35 remain withdrawn from consideration.
- 2. "New matter" rejection of claims 61,62,63,64 under 35 U.S.C. 112, first paragraph, is withdrawn in view of applicant's arguments. Examiner acknowledges that eradication of infection by lysostaphin is mentioned in the abstract of invention.

Claim Rejections - 35 USC § 103

3. Claims 4,5,32,41-51,56-59,61-66 remain rejected under 35 U.S.C. 103(a) as obvious over Zygmunt, and Goldberg and Stark, and further in view of Oldham. The rejection is maintained for the reasons of record as applied to claims 4,5,32,41-60, and further in view of the following.

Examiner maintains that there is only a marginal difference between dosages described as effective on dogs in Goldberg and dosage range as instantly claimed. The dosage is in the same order, and it would be *prima facie* to an artisan that dosage demonstrated to be effective in dogs should be fine-tuned for use in humans. Absent some teaching to the contrary (which is still not offered by

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applicant), determination of particular ranges employed is within the skill of the ordinary worker as a part of the process of normal optimization. Further, as the instant claims are drawn to recombinant lysostaphin, and Oldham demonstrated that recombinant lysostaphin has antimicrobial activity similar to the natural product, it would be obvious, again, that the dosage of recombinant lysostaphin would be in the same range as for natural lysostaphin, but must be fine-tuned. Furthermore, it is well known that actual activity of antibiotics is batch-dependent this is why activity of antibiotics is often expressed in units of activity, rather¹ than in absolute units like mg/kg/day as in the instant claims - and, again, it would be obvious that determination of particular ranges of recombinant lysostaphin for use in humans would be within the skill of the ordinary worker as a part of the process of normal optimization. Finally, instant specification itself supports the obviousness to determine a particular dosage range as it states that "suitable dosages and regiments of lysostaphin may vary with the severity of infection and the sensitivity of the infecting organism" (see p. 10, lines 5-9).

In regard to the use of combined therapy, see discussion of the Zygmunt reference.

See, for example Schuhardt et al. J. Bacteriol., vol. 88, 1964, p. 815, lines 4-8.

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- 4. Claims 32,42,43,46,47,50,51,54,55 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Zygmunt, and Goldberg and Stark, and Oldham as applied above, and further in view of Dixon. The rejection is maintained for the reasons of record.
- 5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Borin whose telephone number is (571) 272-0713. Dr. Borin can normally be reached between the hours of 8:30 A.M. to 5:00 P.M. EST Monday to Friday. If attempts to reach the examiner by

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telephone are unsuccessful, the examiner's supervisor, Mr. Michael Woodward, can be reached on (571) 272-0722.

Any inquiry of a general nature or relating the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-0549.

9/14/04

mlb

MICHAEL BORIN, PR.D. PRIMARY EXAMINER